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> Baotree 4 Gallon Portable Air Compressor User Manual

Baotree 058-4

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Model: 058-4

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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Baotree 4 Gallon Portable Air Compressor. Please read this manual thoroughly before using the product and retain it for future reference.

The Baotree 4 Gallon Portable Air Compressor is designed for various applications, including tire inflation, auto repair, spray painting, and woodwork nailing. It features a 0.5HP oil-free motor, a maximum pressure of 110 PSI, and a 4-gallon tank, offering a balance of power and portability.



Image 1.1: Baotree 4 Gallon Portable Air Compressor, showcasing its compact design.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these instructions may result in serious injury, fire, or electric shock.

- Always wear appropriate personal protective equipment (PPE) such as safety glasses or goggles when operating the compressor.
- Ensure the compressor is placed on a stable, level surface to prevent tipping.
- Do not operate the compressor in wet or damp conditions, or in the presence of flammable liquids or gases.
- Keep children and unauthorized persons away from the operating area.
- Before performing any maintenance or adjustments, always unplug the compressor and release all air pressure from the tank.
- Do not direct compressed air at people or animals.
- Never attempt to repair or modify the pressure relief valve or any other safety device.
- Ensure the electrical supply matches the voltage requirements specified on the compressor's data plate (120V 60Hz).
- The compressor is equipped with overpressure protection. Do not bypass or tamper with this feature.
- Regularly inspect the power cord for damage. Do not use if the cord is frayed or damaged.

- Drain condensation from the air tank regularly to prevent corrosion and maintain performance.

3. PRODUCT COMPONENTS

Familiarize yourself with the key components of your air compressor for proper operation and maintenance.



Image 3.1: Detailed view of the compressor's main parts.

- **Oil-free pump:** Provides compressed air without the need for oil lubrication.
- **Tank pressure gauge:** Displays the pressure inside the air tank.
- **Outlet pressure gauge:** Shows the regulated air pressure being delivered to tools.
- **Large regulator knob:** Used to adjust the output air pressure.
- **Quick coupler:** For quick connection and disconnection of air tools and hoses.
- **Flip-up handle:** For easy portability and transport.
- **Rubber feet:** Provide stability and reduce vibration during operation.

4. SETUP

Follow these steps to prepare your air compressor for its first use.

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the compressor on a firm, level surface in a clean, well-ventilated area. Ensure there is adequate space around the unit for air circulation.
3. **Electrical Connection:** Connect the power cord to a grounded 120V, 60Hz electrical outlet. Ensure the circuit can handle the compressor's power requirements.
4. **Check Drain Valve:** Ensure the tank drain valve (located at the bottom of the tank) is closed before starting the compressor.
5. **Initial Run-in:** For the first use, turn on the compressor with the outlet pressure regulator fully open (set to maximum pressure) and allow it to run until it reaches maximum pressure and shuts off automatically. This helps to seat the motor components.
6. **Check for Leaks:** After the initial run, check all connections for air leaks. A soapy water solution can be applied to connections; bubbles indicate a leak.

5. OPERATING INSTRUCTIONS

This section outlines general operating procedures for your air compressor.



Baotree[®]
AIR COMPRESSOR

AIR COMPRESSOR

Be in control of any situation

- ✓ Tire inflation
- ✓ Auto repair
- ✓ Woodwork nailing
- ✓ Spray painting

Image 5.1: Examples of common applications for the air compressor.

1. **Connect Air Tool:** Attach your air hose and desired air tool to the quick coupler.

2. **Adjust Pressure:** Turn the large regulator knob to set the desired output pressure for your tool. Monitor the outlet pressure gauge.
3. **Start Compressor:** Turn on the compressor. It will build pressure in the tank until it reaches its maximum (110 PSI) and then shut off automatically. It will restart when the tank pressure drops below a certain threshold.
4. **Use Tool:** Operate your air tool as needed. The compressor will cycle on and off to maintain tank pressure.
5. **After Use:**
 - Turn off the compressor.
 - Unplug the power cord.
 - Release all air pressure from the tank by opening the drain valve or using an air tool until the gauges read zero.
 - Disconnect air tools and hoses.
 - Drain any accumulated moisture from the tank.

Oil-Free Motor Operation

OIL-FREE AIR COMPRESSOR

It takes only **60** seconds to fill the empty tank to maximum pressure

275°F Automatic
overheat protection

1/2HP

0.6SCFM@ 90PSI

Baotree[®]
AIR COMPRESSOR



Image 5.2: The oil-free motor design ensures clean air and reduced maintenance.

This compressor features an oil-free motor, which eliminates the need for oil changes and reduces maintenance. The motor is designed for efficient operation, capable of filling the 4-gallon tank to maximum

pressure quickly. It also includes automatic overheat protection for safety.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your air compressor. Always unplug the compressor and release all air pressure before performing any maintenance.

- **Daily:**
 - Drain condensation from the air tank. This prevents rust and maintains tank capacity.
 - Inspect the air filter for dirt or debris. Clean or replace if necessary.
- **Weekly/Monthly (depending on usage):**
 - Check all fasteners for tightness.
 - Inspect the power cord for damage.
 - Clean the exterior of the compressor to prevent dust buildup.
- **General Tips:**
 - Store the compressor in a clean, dry environment.
 - Do not operate the compressor if any parts are damaged or missing.

7. TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Compressor does not start.	No power, tripped circuit breaker, faulty switch.	Check power connection, reset breaker, contact service if switch is faulty.
Compressor runs continuously or cycles too frequently.	Air leak in tank or connections, faulty pressure switch.	Check for leaks and tighten connections. If problem persists, contact service.
Low air pressure at outlet.	Regulator set too low, air leak, clogged air filter.	Adjust regulator, check for leaks, clean/replace air filter.
Excessive noise or vibration.	Loose components, worn motor parts, unstable surface.	Check and tighten all fasteners, ensure stable placement. If noise persists, contact service.
Compressor overheats and shuts off.	Insufficient ventilation, prolonged heavy use, motor overload.	Allow compressor to cool down, ensure proper ventilation, reduce duty cycle.

8. SPECIFICATIONS

Key technical specifications for the Baotree 4 Gallon Portable Air Compressor.

PRODUCT SPECIFICATIONS

Voltage: 120V/60Hz
 Tank capacity: 4 Gallon
 Flow Rate: 190L/MIN
 Power: 1/2HP
 Motor speed: 4700RPM
 Motor Type: Oil-free Motor

Noise Level: 70dB
 Working Pressure: 85-110PSI/6-8BAR
 Working Temperature: -60°F -110°F
 Max.Bearing Pressure: 3.5 MPA
 Protection Temperature: 135°C /275°F
 Weight: 8.5KG/18.74lbs



Image 8.1: Visual representation of product dimensions and key specifications.

Feature	Detail
Brand	Baotree
Model Number	058-4
Tank Capacity	4 Gallons
Motor Horsepower	0.5 HP
Maximum Pressure	110 PSI
Air Flow Capacity (SCFM)	0.6 SCFM @ 90 PSI, 1.0 SCFM @ 40 PSI
Power Source	Corded Electric (120V, 60Hz)
Motor Type	Oil-Free Motor
Noise Level	70 dB
Item Weight	18.7 Pounds (8.5 KG)

Feature	Detail
Material Type	Stainless Steel

BUILT TO WITHSTAND

3-Layer process, against explosion and leakage

3.5 *MPA MAX.*
BEARING PRESSURE



Image 8.2: Illustration of the tank's robust 3-layer construction for durability.

The tank is constructed with a 3-layer process, including a Q235B structural steel base, a plastic powder attachment layer, and a rust & wear resistant layer, designed to withstand up to 3.5 MPa (approximately 507 PSI) bearing pressure, ensuring durability and safety.

LOW NOISE 70DB

No more disturbing, even working at home



Image 8.3: The compressor operates at a low noise level of 70dB.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Baotree customer service. Refer to the product packaging or the manufacturer's official website for the most current contact details. Please have your model number (058-4) and purchase date available when contacting support.